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		\$		

ACC VO4

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ACC VO4

VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[F11A.SRCJACCESS.B32;1

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This is the main processing routine for the ACCESS function.

STARLET operating system, including privileged system services

AUTHOR: Andrew C. Goldstein, CREATION DATE: 20-Dec-1976 15:43

19-Sep-1983 12:36 Return to the primary header after reading the attributes.

V03-002 LMP0023 L. Mark Pilant, 8-Apr-1982 10:40 If there is only one FCB, don't call REMAP_FILE but still set COMPLETE in the window.

ACCESS V04-000		N 2 16-Sep-1984 00:46:05 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 12:29:18 DISK\$VMSMASTER:[F11A.SRC]ACCESS.B32;1 (1)
58 59	0058 1 ! 0059 1 !	V03-001 LMP0018 L. Mark Pilant, 31-Mar-1982 12:00 Modify to use a local copy of the window complete flag.
61 62 63	0060 1 0061 1 0062 1 0063 1	V02-005 LMP0005 L. Mark Pilant, 29-Dec-1981 12:35 Added byte limit quota check on window creationi and Cathedral window support.
65	0065 1 0066 1	VO2-004 ACG0225 Andrew C. Goldstein, 24-Nov-1981 17:39 Add NOLOCK support
58 59 60 61 62 63 64 65 66 67 68 69 70	0067 1 0068 1 0069 1 0070 1 ***	V02-003 ACG0167 Andrew C. Goldstein, 7-May-1980 18:47 Previous revision history moved to F11A.REV
72 73 74 75	0072 1 0073 1 LIBRARY 0074 1 REQUIRE 0389 1	'SYS\$LIBRARY:LIB.L32'; 'SRC\$:FCPDEF.B32';
72 73 74 75 76 77 78 79 80	0390 1 0391 1 FORWARD 0392 1 0393 1 0394 1	ROUTINE ACCESS, ! main access function processing CHECK_FIND, ! conditional directory search HANDLER; ! conditional handler to catch error exit

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ACC VO4

```
C 3
16-Sep-1984 00:46:05
14-Sep-1984 12:29:18
ACCESS
VO4-000
                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 PEDISKSVMSMASTER: [F11A.SRC]ACCESS.B32:1
                                                              GET FIB,
FIND
CREATE,
SEARCH FCB,
READ HEADER,
NEXT HEADER,
CREATE FCB,
CHECK PROTECT,
CREATE WINDOW,
MAKE ACCESS,
MAKE EXTFCB,
FLUSH FID,
UPDATE FCB,
READ ATTRIB,
REMAP FILE,
MARK COMPLETE:
                              get FIB for operation
find file in directory
create file
      139
1443
1443
1445
1449
1553
157
157
                                                                                                                                                  search FCB list
                                                                                                                                                  read file header
                                                                                                                                                  read extension file header
                                                                                                                                                 create an FCB check file protection create a window
                                                                                                                                                 complete the access create and link extension FCB flush a file from the buffer pool
                                                                                                                                                  update attributes in FCB
                                                                                                                                                 read file attributes
remap the file completely
mark file complete
                                                               MARK_COMPLETE:
                                                   Enable the deaccess cleanup if an access is taking place.
      158
                                              PACKET = .10 PACKET;
FUNCTION = .PACKET[IRP$W_FUNC];
IF .FUNCTION[IO$V_ACCESS]
      160
      161
     162
                                               THEN
      164
                                                       CLEANUP_FLAGS[CLF_ZCHANNEL] = 1;
CLEANUP_FLAGS[CLF_DELWINDOW] = 1;
      166
      168
169
                                                  Set up pointers to interesting control blocks.
      170
      171
     172
173
174
175
                                                                                                                               ! pointer to buffer descriptors
                                               ABD = .BBLOCK [.PACKET[IRP$L_SVAPTE], AIB$L_DESCRIPT];
FIB = GET_FIB (.ABD); ! point
                                                                                                                                                pointer to FIB
                                                  Do directory processing, if any. For a normal access, do the directory lookup if a directory ID is present. If this is a conditional create, do the lookup and turn the function into a create if the lookup fails with a file not found. Conditional create on spool devices always become
     176
177
      178
      179
      180
                                                   creates.
      181
      182
183
                                               IF .FUNCTION[IO$V_CREATE]
THEN
      184
185
      186
187
                                                            .CLEANUP_FLAGS[CLF_SPOOLFILE]
     188
189
190
191
192
193
194
195
                                                               THEN NOT CHECK_FIND (.ABD, .FIB)
                                                               ELSE 1
                                                       THEN
                                                               BEGIN
                                                               USER_STATUS[0] = SS$_CREATED;
                                                              RETURN CREATE ():
```

** F

```
ACCESS
VO4-000
                                                                                                 16-Sep-1984 00:46:05
14-Sep-1984 12:29:18
                                                                                                                                     VAX-01 Bliss-32 V4.0-742
DISK$VMSMASTER: [F11A.SRCJACCESS.B32;1
    196
                        END:
                                           END
ELSE
                                           IF .FIB[FIBSW DID_NUM] NEQ O THEN FIND (.ABD, .FIB, 0);
                                       If there is a file open on the channel, check the file ID returned by the FIND against the file ID that is open. If they are different, drop the FCB
                                        and window addresses on the floor.
                                     IF .PRIMARY_FCB NEQ 0
                                           IF .PRIMARY_FCB[FCBSW_FID_NUM] NEQ .FIB[FIBSW_FID_NUM]
OR .PRIMARY_FCB[FCBSW_FID_RVN] NEQ .FIB[FIBSW_FID_RVN]
                                           THEN
                                                 BEGIN
                                                 PRIMARY FCB = 0;
CURRENT WINDOW = 0;
                                        If this is a find only, exit now to avoid an extraneous read of the
                                        file header.
                                    IF NOT .FUNCTION[IO$V_ACCESS] ! if no access
AND .PACKET[IRP$W_BCNT] LEQ ABD$C_ATTRIB ! and no attribute list
THEN RETURN 1; ! all done
                                       Find the FCB of the file, if one exists, then read the file header. If there is no FCB, create one.
                                    FCB = SEARCH_FCB (FIB[FIB$W_FID]);
HEADER = READ_HEADER (FIB[FIB$W_FID], .FCB);
                                       If the file is marked for delete and is not accessed by this user, and
                                        the accessor is not the system, deny its existence.
                         0550
                                    IF .CURRENT WINDOW EQL O AND .HEADER[FH1$V MARKDEL]
AND NOT .BBCOCK [BBLOCK [.PACKET[IRP$L_ARB], ARB$Q_PRIV], PRV$V_BYPASS]
THEN ERR_EXIT (SS$_NOSUCHFILE);
                         0554
0555
0556
0557
0558
0559
                                    FCB_CREATED = 0:
IF .FCB EQL 0
THEN
                                           BEGIN
                                          FCB_CREATED = 1;
FCB = KERNEL_CALL (CREATE_FCB, .HEADER);
                         0560
                         0561
                                     PRIMARY_FCB = .FCB;
                                                                                                 ! record FCB for external use
                                        If access is requested, check for conflicts and file protection.
                                        then create a window and link everything up.
```

ACP

```
16-Sep-1984 00:46:05
14-Sep-1984 12:29:18
ACCESS
VO4-000
                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11A.SRC]ACCESS.B32;1
     IF .FUNCTIONCIOSV_ACCESS]
                                            THEN
                                                   CHECK_PROTECT (.FIB[FIB$V_WRITE] OR .FIB[FIB$V_NOREAD], .HEADER, .FCB);
                                                   IF (.HEADER[FH1$V_LOCKED])
AND NOT .BBLOCK [BBLOCK [.PACKET[IRP$L_ARB], ARB$Q_PRIV], PRV$V_BYPASS]
THEN ERR_EXIT (SS$_FILELOCKED); ! file is deaccess [ocked]
                                                  IF (.FCB[FCB$V_EXCL]

AND NOT (.FIB[FIB$V_NOLOCK] AND .CLEANUP_FLAGS[CLF_SYSPRV]))

OR (.FIB[FIB$V_NOREAD] AND .FCB[FCB$W_ACNT] NEQ 0)

OR (.FIB[FIB$V_NOWRITE] AND .FCB[FCB$W_WCNT] NEQ 0)

OR (.FIB[FIB$V_WRITE] AND .FCB[FCB$W_LCNT] NEQ 0)

OR (.FCB[FCB$W_SEGN] NEQ 0 AND .FCB[FCB$W_ACNT] NEQ 0)

THEN ERR_EXIT (SS$_ACCONFLICT); ! one of above access
                                                                                                                                   ! one of above access conflicts
                            0584
0585
                                                  CURRENT WINDOW = KERNEL_CALL (CREATE WINDOW, .FIB[FIB$L ACCTL], .FIB[FIB$B WSIZE], .HEADER, .PACKET[IRP$L PID], .FCB);

IF .CURRENT_WINDOW EQL O THEN ERR_EXIT (SS$_EXBYTLM);
                                                   KERNEL_CALL (MAKE_ACCESS, .FCB, .CURRENT_WINDOW, .ABD);
                                                If the file looks like a directory file and it is being write accessed,
                             flush it from the buffer pool to avoid retaining stale directory data.
                                                   IF .FIB[FIB$V WRITE]
AND .BBLOCK [READER[FH1$W_RECATTR], FAT$B_RTYPE] EQL FAT$C_FIXED
AND .BBLOCK [HEADER[FH1$W_RECATTR], FAT$W_RSIZE] EQL NMB$C_DIRENTRY
THEN FLUSH_FID (FIB[FIB$W_FID]);
                                                   END:
                                                                                                                                   ! end of access processing
                                               If the file is multi-header, read the extension headers and create
                                               extension FCB's as necessary. Finally read back the primary header.
                                           IF .FCB_CREATED THEN
                                                  BEGIN
WHILE 1 DO
                                                          BEGIN
                                                          NEW_HEADER = NEXT_HEADER (.HEADER, .FCB);
IF .NEW_HEADER EQL O THEN EXITLOOP;
HEADER = .NEW_HEADER;
                                                          IF .FUNCTION[TOSV ACCESS]
AND SEARCH FCB (HEADER[FH1$W FID]) NEQ O
THEN ERR_EXIT (SS$_ACCONFLICT);
```

FCB = KERNEL_CALL (MAKE_EXTFCB, .HEADER, .FCB, .FUNCTION[10\$V_ACCESS]);

IF .FCB NEQ .PRIMARY_FCB

FCB = .PRIMARY_FCB;

THEN

BEGIN

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ACCESS
VO4-000
                                                                                                                         16-Sep-1984 00:46:05
14-Sep-1984 12:29:18
                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [F11A.SRCJACCESS.B32;1
                                                            HEADER = READ HEADER (0, .FCB);
KERNEL_CALL (UPDATE_FCB, .HEADER);
                              END:
                                                     END:
                                                 Do read attributes if requested.
                                              IF .PACKET[IRPSW_BCNT] GTR ABDSC_ATTRIB
                                              THEN
                                                     BEGIN
                                                     IF .CURRENT WINDOW EQL O
THEN CHECK PROTECT (RDATT ACCESS, .HEADER, .FCB);
IF NOT KERNEL CALL (READ_ATTRIB, .HEADER, .ABD) THEN ERR_EXIT ();
HEADER = .FILE_HEADER;
                                                     END:
                                             ! If necessary map the file completely.
                                              IF .FUNCTION[10$V_ACCESS]
                                             THEN
                                                     IF .CURRENT_WINDOW[WCB$V_CATHEDRAL]
                                                     THEN
                                                            IF .PRIMARY FCB[FCB$L_EXFCB] NEQ 0
THEN REMAP_FILE()
ELSE KERNET_CALL (MARK_COMPLETE, .CURRENT_WINDOW);
                                             RETURN 1:
                                             END:
                                                                                                                                        ! end of routine ACCESS
                                                                                                                                            .TITLE
                                                                                                                                                          ACCESS
\V04-000\
                                                                                                                                            . IDENT
                                                                                                                                                         USER_STATUS, CURRENT_VCB
PRIMARY FCB, CURRENT_WINDOW
10 PACKET, CLEANUP FCAGS
FICE_HEADER, GET FTB
FIND, CREATE, SEARCH FCB
READ_HEADER, NEXT_HEADER
CREATE_FCB, CHECK_PROTECT
CREATE_WINDOW, MARE_ACCESS
MAKE_EXTFCB, FLUSH_FID
UPDATE_FCB, READ_ATTRIB
REMAP_FILE, MARK_COMPLETE
SYS$CMKRNL
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                           .EXTRN
                                                                                                                                           .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                            .EXTRN
                                                                                                                                                          SYS$CAKRNL
                                                                                                                                            .EXTRN
                                                                                                                                            .PSECT
                                                                                                                                                          $CODE$, NOWRT, 2
                                                                                                        OFFC 00000
                                                                                                                                                                                                                                                 0395
                                                                                                                                            .ENTRY
                                                                                                                                                          ACCESS, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-
                                                                                                                                                          CURRENT_WINDOW, R11
PRIMARY FCB, R10
a#SYS$CMKRNL, R9
IO PACKET, PACKET
32TPACKET), FUNCTION
                                                                              00006
00006
00006
00006
20
                                                                                                                 00002
00007
00000
00013
00018
                                                                                                                                           MOVAB
                                                                          5B
5A
59
55
                                                                                                    CF
CF
OF
CF
A5
                                                                                                           9E 9E 000
                                                                                                                                           MOVAB
                                                                                                                                           MOVAB
                                                                                                                                           MOVL
```

						6-Sep-	1984 00:46 1984 12:29	:05 VAX-11 BLiss-32 V4.0-742 P DISKSVMSMASTER:[F11A.SRC]ACCESS.B32:1	age 8 (2)
07	0000G	56 CF 57	0402	06 8f 85 57	E1 00010 A8 00020 D0 00027	15:	BBC BISW2 MOVL	#6. FUNCTION, 1\$ #1026, CLEANUP FLAGS+2 844 (PACKET), ABD	: 0475 : 0479 : 0486
	0000G	CF 52		01	DD 00028 FB 00028 PS 00038 18 00038 19 00038 BS 00038 DD 00044		PUSHL CALLS MOVL TSTB	#1. GET_FIB RO, FIB FUNCTION	0487
			0000G	56 24 CF 11	18 00037 95 00039		BGEQ TSTB	3\$ CLEANUP_FLAGS	0499
			OA	A2	19 00030 85 00031 13 00042		BLSS TSTW	10(FIB)	: 0501
				0C 52 57	DD 00044		BEQL PUSHL	FIB	: 0502
	0000v	CF 1D		92	FB 00048		PUSHL	#2, CHECK_FIND	
	0000G	CF CF	0619	02 50 8F 00	50 00050 FB 00057	28:	BLBS MOVZWL CALLS	#1561, USER_STATUS #0, CREATE	0507 0508
	00000		OA		04 00050 B5 00050	35:	RET	10(FIB)	: 0513
				A2 07 52 57 06 12 07	13 00060 04 00062		BEQL	4\$ -(SP)	0514
				52 57	DD 00064		PUSHL	F1B ABD	
	0000G	CF 50		03 6A	FB 00068	45:	MOVL	#3, FIND PRIMARY_FCB, RO	: 0521
	04	AZ	24	A0	13 00070 B1 00077 12 00077	2	BEQL	6\$ 36(RO), 4(FIB)	0523
	08	A2	28	AO	B1 00079		BNEQ CMPW BEQL	40(RO), 8(FIB)	0524
				6A 6B	D4 00080	5\$:	CLRL	PRIMARY_FCB	0527
09		56 05	32	6A 6B 06 A5 03 01AF	E0 00084 B1 00088	65:	BBS	PRIMARY_FCB CURRENT_WINDOW #6, FUNCTION, 7\$ 50(PACKET), #5	0527 0528 0535 0536
			04	01AF A2	31 0008E	7\$:	BGTRU BRW PUSHAB	30\$ 4(FIB)	0543
	0000G	CF 53		01	FB 00094		MOVI	W1. SEARCH_FCB RO. FCB	
			04	53 A2	DD 00090 9F 0009E		PUSHL	FCB 4(FIB)	: 0544
	0000G	CF 54		50	FB 000A1		MOVL	#2, READ HEADER RO, HEADER	:
			00	OF	000A9 12 000A8 95 000A0 18 000B0		MOVL TSTL BNEQ TSTB	CURRENT_WINDOW 8\$ 13(HEADER)	0550
05	58	B5	OD	5532050BF A4A 1BF	1A 00086 31 00086 9F 00096 DD 00096 9F 00096 PB 000A6 DD 000B6 DD 000B6 DD 000B6 DD 000B6		BGEQ	85	0551
0)	76	6)	0910	8F	BF 000B7		BBS CHMU RET	#29, 388(PACKET), 8\$ #2320	0551
				58	D4 000B0 D5 000B0 12 000C0	8\$:	CLRL TSTL BNEQ	FCB_CREATED FCB 9\$	0554 0555
		58	٠	58 53 01 54 01	D5 000BE 12 000CC D0 000CC DD 000CC		MOVL PUSHL PUSHL	#1. FCB_CREATED HEADER	0558 0559

; R

							IN-3eb-	1704 12:21	:10 DISKSAMSWW21EW: FLILW . SWCTWFFE 25 . B35 ! I	(2)
		03		69 53 64 56	00006	SEF 0405506756007554	DD 000C9 9F 000CB FB 000CF D0 000D5 B0 000D5 S1 000DC DD 000DF DD 000DF DD 000E1 EF 000E3 EF 000E9 C9 000EE FB 000F2	PUSHL PUSHAB CALLS MOVL MOVL BBS BRW PUSHL	SP CREATE FCB W4, SYS\$CMKRNL R0, FCB FCB, PRIMARY FCB W6, FUNCTION, 10\$ 20\$ FCB HEADER W0, W1, 1(FIB), R0 W10, W1, (FIB), R1	0561 0567 0570
50	01	A2 62 7E 0A 05	0000G 00 58	01 01 50 CF A4 B5	08A8	5400A 51306 108F	DD 000C9 FB 000CF D0 000D5 FB 000D5 FB 000D5 FB 000D5 FB 000D5 FB 000D6 FB 000D6 FB 000E9 C9 000EE FB 000F7 E0 000FC BF 00101 04 00105 E1 00106 TS: E0 0010B TS: E1 00106 TS: E0 0010B TS: E1 00106 TS: E0 0010B TS: E1 00106 TS: E1 00106 TS: E1 00106 TS: E1 00107 TS: E1 00108 TS: E1 00117 TS: E1 00118 TS:	PUSHL EXTZV EXTZV BISL3 CALLS BBC BBS CHMU RET	HEADER #0 #1 1 (FIB), R0 #10, #1 (FIB), R1 R1, R0, -(SP) #3, CHECK PROTECT #6, 12 (HEADER), 118 #29, a88 (PACKET), 118 #2216	0572 0573 0574
		0C 03	55	A3 62		03	E1 00106 118:	BBC BBS BRW	#3, 34(FCB), 148 #20, (FIB), 13\$ 22\$	0576 0577
		05		F8 62	00006 ⁰	098 CF 0A A3	E1 00106 118: E0 0010B 31 0010F 128: E9 00112 138: E1 00117 148: B5 0011B	BLBC BBC TSTW	22\$ CLEANUP_FLAGS+1, 12\$ #10, (FIB), 15\$ 26(FCB) 12\$	0578
				05	10	62	E9 00120 15\$:	BNEQ BLBC TSTW	(FIB), 16\$	0579
				05	01 1E	E7 A2 A3 79	B5 0011B 12 0011E E9 00120 15\$: B5 00123 12 00126 E9 00128 16\$: B5 0012C 12 0012F B5 00131 17\$: 13 00134 B5 00136 12 00139	BNEQ BLBC TSTW	28(FCB) 12\$ 1(FIB), 17\$ 30(FCB)	0580
					2A	A3 05	B5 00131 17\$:	BNEQ	30(FCB) 22\$ 42(FCB) 18\$	0581
				7E	1A 0C 03	A3 6F 53 A5 54 A2	B5 00136 12 00139 DD 0013B 18\$: DD 00140 98 00142 DD 00146 DD 00148	BEQL TSTW BNEQ PUSHL PUSHL CVTBL PUSHL PUSHL	26(FCB) 22\$ FCB 12(PACKET) HEADER 3(F!B), -(SP) (FIB)	0586
				69 68	0000G	62 05 5E CF 08 50 8F	DD 00146 DD 00148 DD 0014A 9F 0014C FB 00150 D0 00153 12 00156 BF 00158 04 0015C	PUSHAB CALLS MOVL BNEQ CHMU	SP CREATE_WINDOW #8, SYS\$CMKRNL RO, CURRENT_WINDOW 19\$ #10772	0587
				69	00006	57 68 53 55 CF	DD 0015D 19\$: DD 0015F DD 00161 DD 00163 DD 00165 9F 00167	RET PUSHL PUSHL PUSHL PUSHL PUSHAB CALLS	ABD CURRENT_WINDOW FCB #3 SP MAKE_ACCESS #6 EVSSCMMPDNI	0588
				14 01	01 0E	06 A2 A4 0E	FB 0016B E9 0016E 91 00172 12 00176	BLBC CMPB BNEQ	MAKE ACCESS #6, SYSSCMKRNL 1(FIB), 20\$ 14(HEADER), #1 20\$	0594 0595

BBC

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ACP VO4

0642

ACCESS V04-000						13	3 -Sep-1984 -Sep-1984	00:46 12:29	:05 VAX-11 Bliss-32 V4.0-742 :18 DISKSVMSMASTER:[F11A.SRC]ACCESS.832	Page 11 ;1 (2)
	10	08	51 A1 50	OC	6B 06 6A AQ	DO 0021C E1 0021F DO 00224 DS 00227	MC BE MC TS	OVL STL STL EQL ALLS RB USHL USHL USHL USHAB	CURRENT WINDOW, R1 #6, 11(R1), 30\$ PRIMARY_FCB, R0 12(R0) 29\$	0644
		0000G	CF		00 00 51 01	FB 0022C 11 00231 DD 00233 DD 00235	29\$: PL	ALLS RB USHL USHL	#0 REMAP_FILE	0647 0648
			69 50	0000G	5E CF 04 01	DD 00237 9F 00239 FB 0023D D0 00240 04 00243	308: MC RE	USHL USHAB ALLS OVL	MARK_COMPLETE M4, SYSSCMKRNL M1, R0	0650 0652
; Routine Size:	580 bytes.	Routine	Base:	\$CODE\$	+ 0	0000				

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ACCESS
VO4-000
                                                                                                           16-Sep-1984 00:46:05
14-Sep-1984 12:29:18
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11A.SRCJACCESS.B32;1
                          065549012345
0655789010066666712345
06655890100666667712345
066666678901006688345
06689010066889010069069906995
                                        ROUTINE CHECK_FIND (ABD, FIB) =
     FUNCTIONAL DESCRIPTION:
                                                    This routine calls the directory search and intercepts any error exits to handle the create if non-existent function. If the search is successful, the routine returns success; if the search fails with no such file and the create subfunction bit is set, it returns failure; all other errors are resignaled.
                                           CALLING SEQUENCE:
                                                     CHECK_FIND (ARG1, ARG2)
                                           INPUT PARAMETERS:
                                                     ARG1: address of buffer descriptor packet ARG2: address of FIB
                                           IMPLICIT INPUTS:
                                                     NONE
                                           OUTPUT PARAMETERS:
                                                     NONE
                                           IMPLICIT OUTPUTS:
                                                     NONE
                                           ROUTINE VALUE:
1 if find is successful
                                                     O if file is to be created
                                           SIDE EFFECTS:
                                                     NONE
                                       BEGIN
                                        MAP
                                                                               : REF BBLOCKVECTOR [,ABD$C_LENGTH], : REF BBLOCK;
                                                     FIB
                          0696
0697
                                       BUILTIN
                          0698
                                                     FP:
                          0699
                                        EXTERNAL ROUTINE
                                                     FIND:
                                                                                                          ! find file in directory
                                           Establish the condition handler and call FIND. If we hear from it we
                                           return true. Any signals cause either unwind or resignal.
     394
395
    396
397
                                        .FP = HANDLER:
```

FIND (.ABD, .FIE RETURN 1; END;	B, 0);	!	end of routine C	HECK_FIND	
		CF 9E 00002 7E D4 00007 AC 7D 00009 03 FB 0000D	CHECK_FIND: .WORD MOVAB CLRL MOVQ CALLS	Save nothing HANDLER, (FP) -(SP) ABD, -(SP) W3, FIND	0653 0708 0710
•	0000G	0000G CF 50	6D 0000V CF 9E 00002 7E D4 00007 7E 04 AC 7D 00009 0000G CF 03 FB 0000D 50 01 D0 00012 04 00015	04 00015 RE!	6D 0000V CF 9E 00002 MOVAB HANDLER, (FP) 7E D4 00007 CLRL -(SP) 7E 04 AC 7D 00009 MOVQ ABD, -(SP) 0000G CF 03 FB 0000D CALLS #3, FIND 50 01 D0 00012 MOVL #1, R0 04 00015 RET

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ACP
VO4
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M 3
16-Sep-1984 00:46:05
14-Sep-1984 12:29:18
                                                                                                                                    VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[F11A.SRC]ACCESS.B32;1
ACCESS
VO4-000
    3456789012345678901234567890123456789012345678901234567890123456789
                        0714
0715
0716
0717
0718
0719
0723
0723
0723
0723
0733
0733
0733
0738
0738
                                     ROUTINE HANDLER (SIGNAL, MECHANISM) =
!++
                                       FUNCTIONAL DESCRIPTION:
                                                This routine is the condition handler for the conditional find call. It intercepts the error exit from FIND and unwinds to CHECK_FIND's
                                                caller when appropriate.
                                       CALLING SEQUENCE:
                                                HANDLER (ARG1, ARG2)
                                       INPUT PARAMETERS:
                                                ARG1: address of signal array
                                                ARG2: address of mechanism array
                                       IMPLICIT INPUTS:
                                                NONE
                                       OUTPUT PARAMETERS:
                                                NONE
                                       IMPLICIT OUTPUTS:
                                                NONE
                                       ROUTINE VALUE:
                                                SS$_RESIGNAL or none if unwind
                                       SIDE EFFECTS:
                                                NONE
                                    BEGIN
                                    MAP
                                                SIGNAL
                                                                        : REF BBLOCK.
                                                                                                   signal arg array
                                                MECHANISM
                                                                        : REF BBLOCK:
                                                                                                 ! mechanism arg array
                                    EXTERNAL ROUTINE
                                                                        : ADDRESSING_MODE (ABSOLUTE);
! system unwind service
                                                SYS$UNWIND
                                       If the condition is change mode to user (error exit) and the status is no such file, cause an unwind to return 0 to the access main line.
                                       Otherwise, just resignal the condition.
                                    IF .SIGNAL[CHF$L_SIG_NAME] EQL SS$ CMODUSER AND .SIGNAL[CHF$[_SIG_ARG1] EQL SS$_NOSUCHFILE THEN
                        0766
0767
...
                                          MECHANISMECHF$L_MCH_SAVRO] = 0;
```

AC VG	CESS 4-000							N 3 16-Sep-1 14-Sep-1	984 00:46 984 12:29	6:05 VAX-11 BLiss-32 V4.0-742 9:18 DISK\$VMSMASTER: [F11A.SR	Page 15
	460 461 462	0771 0772 0773	3 SYSSUNWIN	D (O.	0);						
	460 461 462 463 464 465	0772 0773 0774 0775 0776	PRETURN SSS_RE	SIGNAL	;				is irrel	levant if unwinding	
							000		.EXTRN		
			00000424	50 8F	04	AC AO	000 00 01	00000 HANDLE 00002 00006	R:.WORD MOVL CMPL	Save nothing SIGNAL, RO 4(RO), #1060	0714 0766
			00000910	8F	08	1A A0	01	0000E 00010	BNEQ CMPL	8(RO), #2320	076
				50	08	AC	DO	00018 0001A 0001E	MOVL	1\$ MECHANISM, RO 12(RO) -(SP)	0770
			00000006	9F 50	0918	AC AO AO AO AO AO AO AO BF	7C FB 3C 04	00021 00023 0002A 1\$:	MOVL CMPL BNEQ CMPL BNEQ MOVL CLRL CLRQ CALLS MOVZWL	"(SP) "2, a "SYS\$UNWIND "2328, RO	077
	Routine Size:	48 h	ytes, Routine					0002F	RET	wester, no	0776
•			, tes, node me	buse.	acopta	. 02	20				
:	466 467 468	0777 0778 0779	1 END 0 ELUDOM								
					_						
	Name		Byte		T SUMMARY			Attribute	•		
:	\$CODE\$		0,11		NOVEC, NOW	IRT,	RD			REL, CON, NOPIC, ALIGN(2)	
:			Libra	ry Sta	tistics		19				
	File				Total		mbol aded	Percent	Pages Mappe	s Processing ed Time	
:	_\$255\$DUA28:	[SYSLI	BJLIB.L32;1		18619		50	0	1000	00:01.9	

B 4 16-Sep-1984 00:46:05 VAX-11 Bliss-32 V4.0-742 Page 16 14-Sep-1984 12:29:18 DISK\$VMSMASTER:[F11A.SRC]ACCESS.832;1 (4)

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: ACCESS/OBJ=OBJ\$: ACCESS MSRC\$: ACCESS/UPDATE=(ENH\$: ACCESS)

Size: 650 code + 0 data bytes; Run Time: 00:17.3; Elapsed Time: 00:45.0; Lines/CPU Min: 2697; Lexemes/CPU-Min: 15424; Memory Used: 226 pages; Compilation Complete

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